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DATE MAILED: 05/05/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/808,777	03/24/2004	Seung Min Lee	2080-3242	6072	
75	7590 05/05/2006			EXAMINER	
JONATHAN Y. KANG, ESQ.			QUARTERMAN, KEVIN J		
LEE, HONG, D	EGERMAN, KANG & S	SCHMADEKA			
14th Floor	•		ART UNIT	PAPER NUMBER	
801 S. Figueroa Street			2879		
	CA 90017-5554		B		

Please find below and/or attached an Office communication concerning this application or proceeding.

-1/
8/1

	Application No.	Applicant(s)					
Office Action Summer	10/808,777	LEE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kevin Quarterman	2879					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	•						
1) Responsive to communication(s) filed on 06 Fe	ebruary 2006.						
2a)⊠ This action is FINAL . 2b)□ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
· 4)⊠ Claim(s) <u>1-4,6-12 and 14-18</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>15-18</u> is/are allowed.							
6)⊠ Claim(s) <u>1-4,6-12 and 14</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)⊡ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>24 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		o(s)/Mail Date f Informal Patent Application (PTO- 	152)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Office Ac	tion Summary	Part of Paper No./Ma	il Date 0406				

DETAILED ACTION

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Response to Amendment

1. Applicant's amendment and remarks received 06 February 2006 have been entered and overcome the objection to the title.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-4, 6-12, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakasegawa (US 6,023,130).
- 4. Regarding independent claim 1, Figure 2(a) of Sakasegawa shows a plasma lighting device comprising a bulb (10, 14) emitting light, being formed of a transparent material (col. 8, In. 41-47), and having a plurality of semicircular patterns (13) formed on a surface of the bulb due to an alignment of grooves having a predetermined depth formed on a surface of the bulb; and a metal (12) formed in the grooves.
- 5. Regarding claim 2, Sakasegawa discloses the transparent material including one of glass and plastic (col. 8, In. 36-40).
- 6. Regarding claim 3, Figure 2(a) of Sakasegawa shows the surface of the bulb including a plurality of patterns having one of a circular shape, a triangular shape, and a polygonal shape.

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7. Regarding claim 4, Figure 2(a) of Sakasegawa shows the grooves formed on at least one of an outer surface and an inner surface of the bulb.

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- 8. Regarding claim 6, Figure 2(a) of Sakasegawa shows the metal formed along the grooves in the form of a wire.
- 9. Regarding claim 7, Figure 2(a) of Sakasegawa shows the metal filled within the grooves.
- 10. Regarding claim 8, Sakasegawa discloses the metal including one of copper, aluminum, and silver (col. 13, In. 62-65).
- 11. Regarding independent claim 9, Figure 2(a) of Sakasegawa shows a plasma lighting device comprising a bulb (10, 14) emitting light, being formed of a transparent material (col. 8, In. 41-47), and having a plurality of v-shaped patterns formed on a surface of the bulb due to an alignment of a plurality of grooves (13) having a predetermined depth; and a metal (12) formed in the grooves.
- 12. Regarding claim 10, Sakasegawa discloses the transparent material including one of glass and plastic (col. 8, In. 36-40).
- 13. Regarding claim 11, Figure 2(a) of Sakasegawa shows the surface of the bulb including a plurality of patterns having one of a circular shape, a triangular shape, and a polygonal shape.
- 14. Regarding claim 12, Figure 2(a) of Sakasegawa shows the grooves formed on at least one of an outer surface and an inner surface of the bulb.
- 15. Regarding claim 14, Sakasegawa discloses the metal including one of copper, aluminum, and silver (col. 13, In. 62-65).

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Response to Arguments

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16. Applicant's arguments filed 06 February 2006 have been fully considered but they are not persuasive.

17. In response to applicant's argument that the display cells of Sakasegawa are not semicircular or v-shaped, as recited in independent claims 1 and 9, the Examiner notes that Figures 3(a) of Sakasegawa shows the display cell having a v-shape, while Figure 3(b) of Sakasegawa shows the display cell having a semicircular shape. Thus, the Examiner holds that Sakasegawa teaches the limitations of independent claim 1 and 9, as discussed earlier.

Allowable Subject Matter

- 18. Claims 15-18 are allowed.
- 19. The following is a statement of reasons for the indication of allowable subject matter: Regarding independent claim 15, the prior art of record neither shows or suggests a plasma lighting bulb comprising, in addition to other limitations of the claim, a plurality of hexagonal patterns formed on an outer surface of the bulb due to an alignment of a plurality of grooves having a predetermined depth. Due to their dependency upon independent claim 15, claims 16-18 are also allowable for the same reason.

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Conclusion

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- 20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Houkes (US 4,568,859) discloses a discharge lamp with interference shielding.
- 21. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 22. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (571) 272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin Quarterman Examiner Art Unit 2879

1 May 2006

Joseph Williams Primary Examiner Art Unit 2879

Joseph Willia